

# **Ag Leader<sup>®</sup>** **Technology**



**SureDrive™**

---

**SureDrive™ Gear Motor**  
**Generic Installation Instructions**  
**PN: 2006467-ENG REV. A**

# Installation Overview

This document defines requirements to install a SureDrive™ gear motor (Ag Leader part number 4004758) on an unspecified seed meter. User designed custom brackets are required, and are not provided with this kit.

## Required Parts

Part Number	Qty *	Description
2002086-25150	1	COTTER PIN - 1/4IN X 1-1/2IN **
2002086-19150	1	COTTER PIN - 3/16IN X 1-1/2IN ZP **
2002086-11150	1	COTTER PIN - 7/64 X 1 1/2 IN **
2002412-06020	4	SOCKET HEAD CAP SCREW - 6 X 20MM **
4004638	1	SEED METER COUPLER **
4005231	1	BRACKET - MOTOR (SUREDRIVE GENERIC)**

\* Quantities listed are per row unit

\*\* Hardware can be located in SureDrive Installation Kit P/N 4101484

The SureDrive™ gear motor installation must meet the following requirements:

- Two point minimum mechanical attachment of motor bracket to seed meter housing
- Attachment of seed meter coupler to seed meter drive shaft
- Gap between seed meter coupler shoulder and motor housing of 3-5mm
- 90 RPM maximum
- Torque 4.5 N-m maximum
- Motor current draw during operation must not exceed 6.2 amps. High operating current indicates misalignment of parts and/or excessive friction in seed meter components.

# Installation Procedure

Photos are for reference only, and may not match your seed meter and planter configuration

1. Remove existing drive components (chains, shafts, etc) that interface with seed meter.

2. Attach seed meter coupler to seed meter shaft using cotter pin.

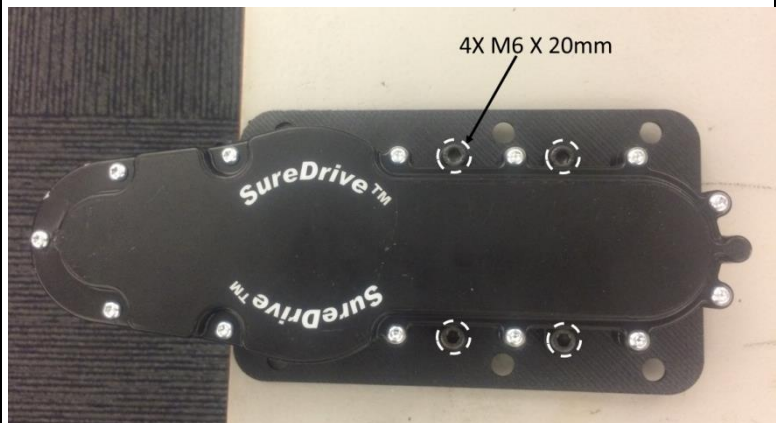
There are 3 sets of holes in coupler. Use the largest hole and cotter pin that is compatible with your seed meter shaft.

Cross drilling of seed meter shaft may be necessary in some applications

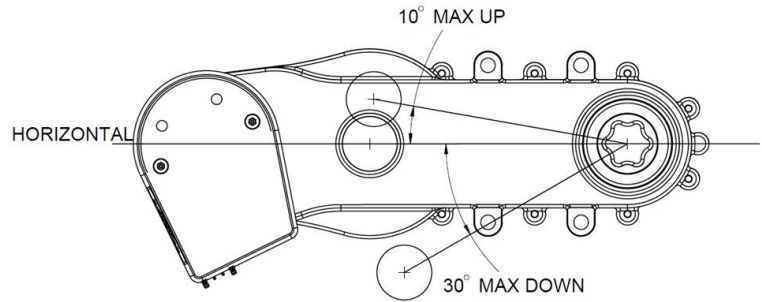


3. Mount SureDrive™ motor to flat side of generic motor mount bracket using four M6 socket head cap screws.

Use 5mm hex key to tighten screws.

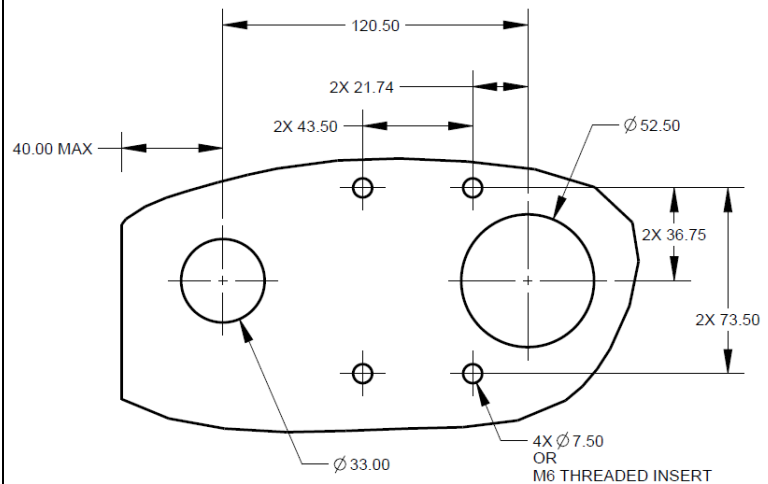


4. Motor must be installed within 10° above horizontal and 30° below horizontal with respect to drive shaft as shown. Motor is shown in optimum horizontal orientation.



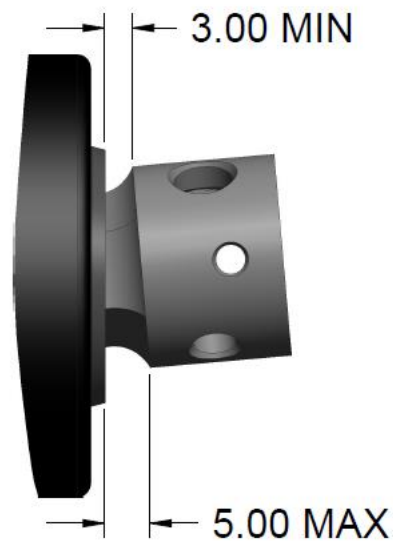
5. Insert seed meter coupler into SureDrive™ motor, and attach bracket(s) to seed meter via user-designed custom brackets. Custom bracket thickness of 2.5 mm or thicker is recommended.

Bracket(s) must attach to seed meter at a minimum of two points. Interface dimensions for SureDrive™ motor are shown for reference.



6. Measure the gap between the seed meter coupler and SureDrive™ motor. Gap must be between 3-5mm as shown to ensure proper engagement and alignment of seed meter coupler.

Maximum misalignment tolerance is shown.



Maximum misalignment tolerance is shown